

Conductive Plastic Element - Open Frame



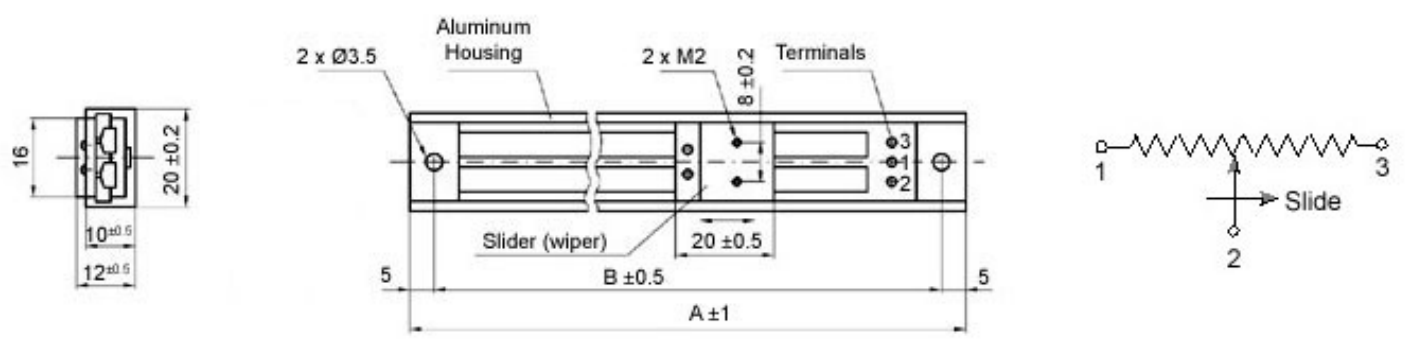
- **Economical**
- **± 0.5% Standard Linearity**
- **20 Million Cycles Life Span**
- **High Precision**

Floating wiper replaces conventional shaft reducing overall size. Economical. No magnetic properties makes this model popular in medical imaging environments.

Electrical Specifications	CFL-100	CFL-200	CFL-300	CFL-400	CFL-500	CFL-700	CFL-1000
Electrical Stroke Lengths (mm)	100	200	300	400	500	700	1000
Resistance Values (ohms)	2k...10k		5k...20k	5k...100k	5k...200k	10k...200k	10k...500k
Resistance Tolerance (standard)	± 20% (±10% optional)						
Linearity Tolerance (standard)	±0.5% (±0.1% optional)						
Resolution	Essentially infinite (<0.01mm)						
Output Smoothness	<0.1% against input voltage						
Power @ 40° (W)	1	2	2.5	3	4	5	6
Temperature Coefficient of Element	400 ppm/K						
Contact Resistance Variation	<2%						
Insulation Resistance	>1,000 Mohm @ 500 VDC						
Dielectric Strength	500 VAC, 1 minute						
Maximum Wiper Current	1mA						
Recommended Wiper Current	<1µA						
Mechanical Specifications							
Mechanical Stroke (mm)	101	203	303	403	505	705	1005
Weight (g)	50	70	100	130	160	230	300
Life Expectancy - Shaft Cycles	20 million cycles						
Displacement Speed	5 m/s						
Vibration	15 g/10Hz to 2,000 Hz						
Shock	50 g/11ms						
Environmental Specifications							
Operating Temperature	-30°C to +105°C						
Storage Temperature	-40°C to +125°C						
IP Protection Grade	not rated						
Standards	MIL-R-12934						
Materials							
Housing	Aluminum						
Terminals	Gold plated (turret type)						

Dimension Table (mm)	CFL-100	CFL-200	CFL-300	CFL-400	CFL-500	CFL-700	CFL-1000
A (± 1.0)	150	250	350	450	550	750	1050
B (± 0.5)	140	240	340	440	540	740	1040

Dimensions (mm)



Options

- Non standard resistance values
- Non standard stroke lengths

P3 America - 3089C Clairemont Dr. #363 - San Diego, Ca. 92117
 Phone: (858) 277-1420 Fax: (858) 225-0439
www.p3america.com